

BRUHATH BANGALORE MAHANAGARA PALIKE

YALAHANKA ELECTRICAL DIVISION

E MEASUREMENT BOOK

Name of work:- Providing Energy efficient LED street lights to HMT layout and surrounding area in Ward No-09...

BRUHATH BANGALORE MAHANAGARA PALIKE

Yalahanka ELECTRICAL DIVISION

PRE MEASUREMENT BOOK

Name of work: :- Providing Energy efficient LED street lights to HMT layout and surrounding area in Ward No-09.

Name of Contractor of nature of Agency:- M/s, Chowdeshwari Electricals,

Job Code No:- 009-19-000007

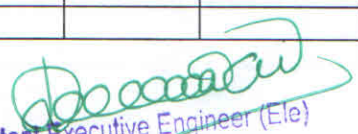
Ref no and Date of commencement of work:-EE/YZ/VO/000025/ 2019-20 Date:- 23/08/2019

Measurement Book No:

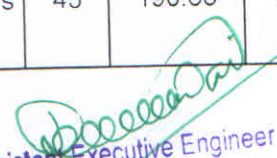
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Bill NO :-

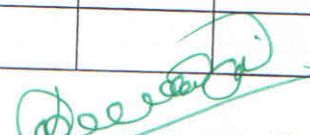
Sl. No.	Description of item	Unit	Present Measurements		
			Qty	Tender Full Rate	Cost
1	LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminare > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacture. Suitable for B1/B2 Roads as per IS 1944 Part I & Part II. LED Streetlight 65watts	Nos	1	13572.00	13572.00
2	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets. 200mmx200mmx98mm	Nos	37	1579.05	58424.85
3	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) THREE POLE 100Amps 25kA.	Nos	37	2931.90	108480.30
1	NO NUMBER	Ganesh nagar 2nd stage			
2	SBES/Y9/TC37/GN/01/00/19/S/	Telecom layout, Ganesh nagar.			
3	SBES/Y9/TC37/GN/01/00/24/OS/	Telecom layout, 4th Cross, G K Adiga road.			
4	SBE/Y9/TC/64/DC/1.M/07/S/	1st Main, Dhanalakshmi Layout.			
5	SBE/Y9/184/D4/M/13/S/	Sir M V Badaavane 4th main			
6	SBE/Y9/TC/AL/C/01/S/	1st main, Near Ananda badaavane			


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7	SBES/Y9/TC88/AL/C/07/OS/	5th main road, Ananda baadavane				
8	SBES/Y9/TC69/CL/05/00/04/S/	#126, Canara bank layout.				
9	SBES/Y9/BEL/04/TC31/00/12/S/	BEL layout, 10th cross				
10	SBES/Y9/TC30/BEL/04A/00/03/S/	BEL 3rd block children play ground				
11	SBES/Y9/TC31/BEL/00/13/03/S/	#350, 13th cross, BEL				
12	SBES/Y9/TC31/BEL/00/13/06/S/	#325, 13th cross, BEL 1st Block				
13	SBES/Y9/TC95/BEL/00/11/05/S/	#235, BEL Layout, 2A Main road				
14	SBES/Y9/TC31/BEL/04/00/05/S/	BEL 1st block, 4th main, M E N Kishor Public school				
15	SBES/Y9/TC34/BEL/03/00/01/S/	BEL Layout, 3rd main road, 1st block				
16	SBES/Y9/TC30/VP/RKK/MR/00/03/S/	BEL Vidyaranyapura				
17	SBES/Y9/TC74/BEL/00/09/05/S/	#741, 9th cross, BEL Layout, Indore stadium				
18	SBES/Y9/TC94/IEHCS/07/00/12/S/	#849, 7th main BEL Layout 5th block				
19	NO NUMBER	Sri venkateshwara swamy temple (NEW POLE)				
20	SBES/Y9/RL/03/01A/04/S/	6th cross, Munishamappa road				
21	SBES/Y9/TC51/NTI/08A/00/13/S/	827/7, 8th main road, BEL layout, 4th block				
22	SBES/Y9/TC50/VPT/MR/00/40/S/	#21, Thindlu, Vidyaranyapura main road				
23	NO NUMBER	Vidayaranyapura Police station, Bel layout, 4th main, 6th block				
24	SBES/Y9/TC59/BSB/MR/00/04/O/	Basava samithi, Badavane road				
25						
26						
27	SBES/Y9/TC39/DL/M/13/S/	Parvathamma Badaavane				
28	SBES/Y9/TC82/SL/01/00/03/5/S/	VSE Apartment road				
29	SBES/Y9/150/4L/C/01/S/	Sapthagiri layout, Venkataramaya road				
30	SBES/Y9/TC50/VPT/MR/00/26/S/	Vidyaranyapura Sapthagiri Layout				
31	SBES/Y9/T21/SG/C/28/S/I/	Sapthagiri layout, 3rd cross				
32	SBES/Y9/T2H/SG/M/26/5/T/	Sapthagiri Layout, A				
33	NO NUMBER	Sidhi vinayaka layoyt 3rd stage, Kodugehalli				
34	NO NUMBER	BBMP, 3rd stage, Sonnappa badaavane				
35	SBES/Y9/T72/M/DL/02/S/	AVR block, 1st main road, Verupakasha pura				
36	SBES/Y9/TC93/RMR/00/10/S/	2nd B cross, Ramaiah Garden				
37	SBES/Y9/TC34/RL/00/01/04/S/	#197/6, Sri krishna temple main road				
4	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes. 25 sqmm Long Barrel		Nos	80	14.93	1194.40
5	Supplying of LT UG cable having aluminium conductor PVC insulated, sheathed, galvanised, steel wire/steel tap armoured cable with PVC outer sheathing 1.1 KV class. I. Class 'A' PVC Cable. 3.5 core 25 sqmm		Mtrs	248	119.63	29668.2
6	Labour charges for laying of 1.1 KV class UG cable when supplied agency in existing trench GI pipe / stoneware pipe / on wall / on pole as required. I. In existing trench/duct. 6 sqmm to 16 sqmm		Mtrs	248	10.80	2678.4
7	Supplying and fixing angle iron frame work fabricated out of M.S angle iron... and M.S. flat... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. a) 50X50X6 mm		Mtrs	45	190.68	8580.6


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8	Supplying and stringing of ACSR Conductor (6/2.59mm Al + 1/2.59mm Steel).	Mtrs	4495	21.75	97766.25
	SBES/Y9/TC38/GN/01/00/28/S TO SBES/Y9/TC38/GN/01/00/31/S	3 Spans 105 Mtrs			
	SBES/Y9/TC38/GN/01/00/04/S TO SBES/Y9/TC38/GN/01/00/05/S	3 Spans 105 Mtrs			
	SBES/Y9/TC37/GN/01/00/24/S TO SBES/Y9/TC37/GN/01/04/06	1 Spans 40 Mtrs			
	Spun pole to SBES/Y9/GN/00/10/01/S	1 Spans 40 Mtrs			
	SBES/Y9/GN/00/10/01/S TO SBES/Y9/GN/00/10/03/S	2 Spans 70 Mtrs			
	SBES/Y9/TC37/GN/00/04/02/S TO SBES/Y9/TC37/GN/00/04/03/S	1 Spans 35 Mtrs			
	Spun POLE MAIN ROAD TO SBES/Y9/GN/00/09/01	1 Spans 40 Mtrs			
	SBES/Y9/GN/00/09/01 TO SBES/Y9/GN/00/09/03	2 Spans 70 Mtrs			
	SPUN POLE MAIN ROAD TO SBES/Y9/GN/00/08/01	1 Spans 40 Mtrs			
	SBES/Y9/GN/00/08/01 TO SBES/Y9/GN/00/08/03	2 Spans 70 Mtrs			
	SBES/Y9/TC72/GN/00/10 TO SBES/Y9/TC72/GN/00/12	2 Spans 70 Mtrs			
	TC379 Near 01 To 06 (New pole) Virupakshapura	5 Spans 199 Mtrs			
	Old Pole No. GE/15/02/06/3A/P5 (Door No. 26 AND 28) #13, KVS layout	1 Spans 40 Mtrs			
	Bescom pole no 10001383162 to 10001383165 Sonnappa layout, 3rd main	4 Spans 160 Mtrs			
	Bescom pole no 10001383174 to 10001383172 Sonnappa layout, 3rd main	2 Spans 80 Mtrs			
	SBES/Y9/TC/78/TKHMR/00/41/S TO SBES/Y9/TC/78/TKHMR/00/42/S Tindlu main road, Near Tennis court	3 Spans 105 Mtrs			
	Saptagiri layout, 1st main	2 Spans 80 Mtrs			
	Bescom source code No 10001380094 To 10001925725	1 Spans 40 Mtrs			
	Bescom source code No 10001925725 To 10001594887	1 Spans 40 Mtrs			
	Bescom source code No 10001594887 To 10001594886	1 Spans 40 Mtrs			
	Bescom source code No 10001594886 To 10001594888	1 Spans 40 Mtrs			
	Bescom source code No 10001594888 To 10001594889	1 Spans 40 Mtrs			
	Bescom source code No 10001386092 To NEW Pole No 1 OPP NISH - 9 Apartment	1 Spans 40 Mtrs			
	GE/BEL/00/01/05/S TO Next pole BEL layout, 1st main, 6th block	2 Spans 40 Mtrs			
	SBE/Y9/TC19/BEL/1M/08/S TO SBE/Y9/TC19/BEL/1M/04/S	4 Spans 160 Mtrs			
	SBE/Y9/TC65/HMT/12/00/05/S TO SBE/Y9/TC65/HMT/12/00/06/S	1 Spans 40 Mtrs			

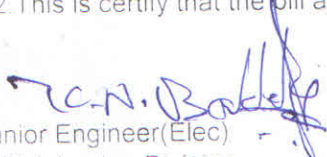

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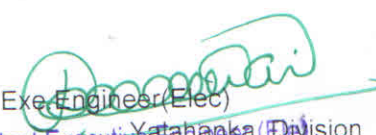
SBES/Y9/TC24/HMT/02/00/01/S TO SBES/Y9/TC24/HMT/02/00/03/S	2 Spans 80 Mtrs				
SBES/Y9/T47/VPL/HQ/04/S TO SBES/Y9/T47/VPL/HQ/01/S Maruthi layout, 3A cross, Virupaksha pura	3 Spans 120 Mtrs				
SBES/Y9/T72/VPL/HQ/01/S TO SBES/Y9/T72/VPL/HQ/03/S Maruthi layout, 5A cross, Virupaksha pura	2 Spans 80 Mtrs				
SBES/Y9/TC40/GN/00/07/0 TO SBES/Y9/TC40/GN/00/05/01/S5TH Cross, Ganesh Nagara	1 Spans 38 Mtrs				
SBES/Y9/TC40/GN/00/05/01/S TO SBES/Y9/TC40/GN/05A/03/S	2 Spans 76 Mtrs				
SBES/Y9/TC40/GN/01/00/06/0 TO SBES/Y9/TC40/GN/00/04A/04/0	1 Spans 35 Mtrs				
SBES/Y9/TC40/GN/01/00/04A/04/0 TO SBES/Y9/TC40/GN/00/04A/01	3 Spans 105 Mtrs				
SBES/Y9/TC40/GN/00/10F TO SBES/Y9/TC40/GN/00/16F	6 Spans 228 Mtrs				
SBES/Y9/TC37/01/00/16/S TO SBES/Y9/TC37/GN/00/08/01/S& 02/s 8th Cross, Ganesha Layout	2 Spans 85 Mtrs				
SBES/Y9/TC37/01/00/17/S TO SBES/Y9/TC37/GN/00/09/01/S&02/S 9th Cross, Ganesha Layout	2 Spans 85 Mtrs				
Main Road Spun pole TO SBES/Y9/TC40/GN/00/10/01/S&02/S	2 Spans 90 Mtrs				
SBES/Y9/TC /00/04/06/0 TO SBES/Y9/TC37/01/00/24/S &23/S Telecom layout	2 Spans 80 Mtrs				
SBES/Y9/TC/TL/00/04/04/S TO SBES/Y9/TC/TL/00/04/01/S	3 Spans 112 Mtrs				
SBES/Y9/TC38/TKL/00/01/07/S TO SBES/Y9/TC38/TKL/00/01/01/S &02/S	2 Spans 82 Mtrs				
SBES/Y9/TC37/TL/00/04/14/S TO SBES/Y9/TC37/TL/02/00/05/S2nd main, Telecom layout	1 Spans 40 Mtrs				
SBES/Y9/TC37/TL/02/00/05/S TO SBES/Y9/TC37/TL/02/00/08S	3 Spans 120 Mtrs				
SBES/Y9/TC38/TL/00/07/01/S TO SBES/Y9/TC38/TL/01/00/28/0	1 Spans 40 Mtrs				
SBES/Y9/TC38/TL/01/00/28/0 TO SBES/Y9/TC38/TL/01/00/30/S	2 Spans 70 Mtrs				
SBES/Y9/TC38/TL/00/07/04/S TO SBES/Y9/TC38/TL/00/07/05/S	1 Span 35 Mtrs				
SBES/Y9/TC36/TL/00/01/07/S TO SBES/Y9/TC36/TL/00/01/06/S	1 Span 35 Mtrs				
SBES/Y9/TC36/TL/00/02/07/S TO SBES/Y9/TC36/TL/00/02/06/S	1 Span 35 Mtrs				
SBES/Y9/TC36/TL/00/03/07/S TO SBES/Y9/TC36/TL/00/03/06/S	1 Span 38 Mtrs				
SBES/Y9/TC40/GN/02/00/08/S TO SBES/Y9/TC40/GN/00/03/01/S/F&02/S	2 Span 75 Mtrs				
SBES/Y9/TC40/GN/02/00/14S TO SBES/Y9/TC40/GN/00/07/08/S	1 Span 40 Mtrs				
SBES/Y9/TC40/GN/00/07/05/S TO SBES/Y9/TC40/GN/02/00/15/S	1 Span 42 Mtrs				

	SBES/Y9/TC82/GN/02/00/12/S TO SBES/Y9/TC82/GN/02/00/10/S	2 Span 72 Mtrs				
	SBES/09/TC40/GN/00/07/01/S TO SBES/09/TC40/GN/00/07/04/S	2 Span 71 Mtrs				
	SBES/Y9/TC40/GN/00/08C/03/S TO SBES/Y9/TC40/GN/00/08C/01/S	2 Span 70 Mtrs				
	SBES/Y9/TC40/GN/00/08B/01/S TO SBES/Y9/TC40/GN/00/08B/02/S	1 Span 35 Mtrs				
	SBES/Y9/TC40/GN/00/08A/01/S TO SBES/Y9/TC40/GN/00/08AC/03/S	1 Span 40 Mtrs				
	SBES/Y9/TC40/GN/00/08AC/03/S TO SBES/Y9/TC40/GN/08A/02/S	1 Span 40 Mtrs				
	SBES/Y9/TC40/GN/08A/02/S TO SBES/Y9/TC40/GN/08A/03/S	1 Span 40 Mtrs				
	Opp. Gokul Nilaya Apartment pole TO SBES/Y9/TC64/TR/M/03/S	1 Span 37 Mtrs				
	New pole TO SBES/TC72/DL/05/05/S Chaitra Dhama House, 5th main, Dhanalakshmi layout	3 Span 105 Mtrs				
	SBES/Y9/TC84/MV/RC/01/F TO SBES/Y9/TC84/MV/RC/03/F	3 Span 110 Mtrs				
	SBES/Y9/TC84/SMV/00/07 TO SBES/Y9/TC84/SMV/00/09	2 Span 80 Mtrs				
	SBES/Y9/TC82/HL/00/04/02/S TO SBES/Y9/TC82/HL/00/04/01/S	1 Span 40 Mtrs				
	SBES/Y9/TC82/NCT/MR/00/12/S TO SBES/Y9/TC82/VMKG/00/03/05/0	1 Span 40 Mtrs				
	SBES/Y9/TC82/VMKG/00/03/05/0 TO SBES/Y9/TC82/VMKG/00/03/06/0	1 Span 40 Mtrs				
9	1.1 KV Pin Insulator	Nos	148	31.90	4721.20	
10	No. 8 Strain Insulator	Nos	50	10.15	507.50	
11	2 Pin 45x45x5mm -510mm	Nos	138	221.85	30615.30	
12	Releasing of steel supports 9.0 to 10.00 mtr long such as 22.68 kg (50 lbs) Rail, 27.22 kg (60 Lbs) Rail IBeam of sizes 200x100mm, 175x90 mm, 125x100mm. Fabricates poles tubular poles in pits of 1.8 mtrDepth, Aligning, Refilling with soil and ramming as approved drawing (Any Dismantling work 90% of the corresponding erection charges(304x90%=273.6)	Nos	6	198.36	1190.16	
13	Transportation using 7.5/10 Tons Lorry Rs. 23 per Kms subjected to a minimum of Rs. 1200/-per day (shifting of Panel boards & Poles)	Nos	6	870.00	5220.00	
						362619.20
						Total Rs

CERTIFICATE:

1. This is certify that the work done is satisfactory.
2. This is certify that the bill amount claimed in this bill does not claimed in any of the previous bill.


Junior Engineer(Elec)
Yalahanka Division


Asst. Exe. Engineer (Elec)
Assistant Executive Engineer (Elec)
Yalahanka Division
BBMP, Bangalore


Executive Engineer
Electrical Division
Yalahanka Zone BBMP
Byatarayanapura, Bangalore-02